

Notice of Allowability

Application No.

10/049,750

Examiner

Delia M. Ramirez

Applicant(s)

TISCHER ET AL.

Art Unit

1652

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 1/17/2007.
2. ☒ The allowed claim(s) is/are 95-113 and 116-123.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☒ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

DETAILED ACTION

Status of the Application

Claims 95-113 and 116-123 are pending.

Amendment of claims 95, 103, 106, 111, 116-117, 120-123, cancellation of claims 114-115, 124 and amendments to the specification as submitted in a communication filed on 1/17/2007 is acknowledged.

Reasons for Allowance

1. The following is an Examiner's statement of reasons for allowance. Although the prior art discloses a process for the production of deoxyribonucleosides by using purine nucleoside phosphorylases from *Bacillus stearothermophilus* which catalyze the reaction of 2-deoxyribose-1-phosphate nucleobases such as adenine, guanine, hypoxanthine, xanthine, cytosine, uracil, thymine, and 6-azauracil (Yamauchi et al.; cited in previous Office actions), and the synthesis of deoxyribonucleosides wherein dR1P and a nucleobase are combined in a reaction catalyzed by thymidine phosphorylase and wherein dR1P is produced by isomerizing dR5P in a reaction catalyzed by phosphopentomutase (Barbas, cited in previous Office Actions), the Examiner has found no teaching or suggestion in the prior art directed to a method for the *in vitro* enzymatic synthesis of purine deoxyribonucleosides, wherein said method requires reacting dR1P and a nucleobase in the presence of a purine nucleoside phosphorylase, and wherein the inorganic phosphate which results from such enzymatic reaction is further removed by phosphorylation of a substrate with said inorganic phosphate. Therefore, claims 95-113 and 116-123 directed to a method for the *in vitro* enzymatic synthesis of purine deoxyribonucleosides, wherein said method requires reacting dR1P and a nucleobase in the presence of a purine nucleoside phosphorylase, and wherein the inorganic phosphate which results from such enzymatic reaction is further removed by phosphorylation of a substrate with said inorganic phosphate, are allowable over the prior art of record.

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Conclusion

2. Claims 95-113 and 116-123 are allowed.
3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Delia M. Ramirez whose telephone number is (571) 272-0938. The examiner can normally be reached on Monday-Friday from 8:30 AM to 5:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. Ponnathapura Achutamurthy can be reached on (571) 272-0928. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-1600.



Delia M. Ramirez, Ph.D.
Patent Examiner
Art Unit 1652

DR
February 4, 2007

DELIA M. RAMIREZ, PH.D.
PRIMARY EXAMINER